

Title (en)

CIRCUIT BREAKER AND METHOD FOR OPERATING SAME

Title (de)

SCHUTZSCHALTER UND VERFAHREN ZUM BETREIBEN DESSEN

Title (fr)

DISJONCTEUR ET PROCÉDÉ DE FONCTIONNEMENT CORRESPONDANT

Publication

EP 3688852 B1 20221228 (DE)

Application

EP 18774044 A 20180925

Priority

- DE 102017122220 A 20170926
- EP 2018075856 W 20180925

Abstract (en)

[origin: WO2019063502A1] The invention relates to a method for operating a circuit breaker (1), wherein a switch-off process is initiated with a detection of a residual current, wherein, during the switch-off process, a voltage value (2) between a neutral conductor (3) and at least one current-carrying conductor (4) at an outlet (5) of the circuit breaker (1) is reduced from an operating voltage value (7) according to a predefined switch-off curve (8) to substantially zero by a switch-off unit (6), wherein, according to the switch-off curve (8), the voltage value (2) is reduced from a starting point (9) and only reaches substantially zero after a predefined first time period.

IPC 8 full level

H02H 3/02 (2006.01)

CPC (source: EP US)

H01H 9/54 (2013.01 - EP); **H01H 83/14** (2013.01 - EP); **H02H 3/02** (2013.01 - EP); **H02H 3/021** (2013.01 - EP US); **H02H 3/08** (2013.01 - US); **H02H 3/33** (2013.01 - EP); **H02H 5/12** (2013.01 - EP)

Citation (examination)

- US 5003486 A 19910326 - HENDEL MORDECHAI [IL], et al
- EP 2523304 A1 20121114 - BRUSA ELEKTRONIK AG [CH]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102017122220 A1 20190328; CN 111133649 A 20200508; CN 111133649 B 20220701; EP 3688852 A1 20200805; EP 3688852 B1 20221228; US 11469585 B2 20221011; US 2021210945 A1 20210708; WO 2019063502 A1 20190404

DOCDB simple family (application)

DE 102017122220 A 20170926; CN 201880062006 A 20180925; EP 18774044 A 20180925; EP 2018075856 W 20180925; US 201816650391 A 20180925